```
=> s bandwidth# or throughput#

        53922 BANDWIDTH#
        41201 THROUGHPUT#
L1      90855 BANDWIDTH# OR THROUGHPUT#

=> s priority or priorities or weight#

        45106 PRIORITY
         5423 PRIORITIES
       792832 WEIGHT#
L2     827668 PRIORITY OR PRIORITIES OR WEIGHT#

=> s 395/200.56 /cclst

L3        167 395/200.56 /CCLST

=> s l1 and l3

L4         52 L1 AND L3

=> s l4 and l2

L5         23 L4 AND L2

=> d ti,ab 1-

=> d his


       (FILE 'USPAT' ENTERED AT 11:42:36 ON 28 FEB 1999)
L1      90855 S BANDWIDTH# OR THROUGHPUT#
L2     827668 S PRIORITY OR PRIORITIES OR WEIGHT#
L3        167 S 395/200.56 /CCLST
L4         52 S L1 AND L3
L5         23 S L4 AND L2

=> s l4 /ti,ab

        914 BANDWIDTH#/TI
       5283 BANDWIDTH#/AB
        238 THROUGHPUT#/TI
       2172 THROUGHPUT#/AB
        167 395/200.56 /CCLST
L6       11 ((BANDWIDTH#/TI,AB OR THROUGHPUT#/TI,AB) AND (395/200.56
/C
CLS
           T))

=> d ti,ab 1-

=> d his


       (FILE 'USPAT' ENTERED AT 11:42:36 ON 28 FEB 1999)
L1      90855 S BANDWIDTH# OR THROUGHPUT#
L2     827668 S PRIORITY OR PRIORITIES OR WEIGHT#
L3        167 S 395/200.56 /CCLST
L4         52 S L1 AND L3
L5         23 S L4 AND L2
```

```
L6              11 S L4 /TI,AB

=> s 370/468 /cclst

L7             419 370/468 /CCLST

=> s l7 and l1

L8             291 L7 AND L1

=> s l8 and l2

L9             144 L8 AND L2

=> s l9 /ti,ab

               419 370/468 /CCLST
               914 BANDWIDTH#/TI
              5283 BANDWIDTH#/AB
               238 THROUGHPUT#/TI
              2172 THROUGHPUT#/AB
               659 PRIORITY/TI
              3374 PRIORITY/AB
                29 PRIORITIES/TI
               297 PRIORITIES/AB
              4427 WEIGHT#/TI
             95506 WEIGHT#/AB
L10             11 (((370/468 /CCLST) AND (BANDWIDTH#/TI,AB OR
THROUGHPUT#/TI,
AB)
               ) AND (PRIORITY/TI,AB OR PRIORITIES/TI,AB OR
WEIGHT#/TI,AB)
)

=> d ti,ab 1-


=> d his


      (FILE 'USPAT' ENTERED AT 11:42:36 ON 28 FEB 1999)
L1        90855 S BANDWIDTH# OR THROUGHPUT#
L2       827668 S PRIORITY OR PRIORITIES OR WEIGHT#
L3          167 S 395/200.56 /CCLST
L4           52 S L1 AND L3
L5           23 S L4 AND L2
L6           11 S L4 /TI,AB
L7          419 S 370/468 /CCLST
L8          291 S L7 AND L1
L9          144 S L8 AND L2
L10          11 S L9 /TI,AB

=> s 370/477 /cclst

L11          259 370/477 /CCLST

=> s l11 and l1

L12          154 L11 AND L1
```

```
=> s 112 and 12

L13          50 L12 AND L2

=> s 113 /ti,ab

            259 370/477 /CCLST
            914 BANDWIDTH#/TI
           5283 BANDWIDTH#/AB
            238 THROUGHPUT#/TI
           2172 THROUGHPUT#/AB
            659 PRIORITY/TI
           3374 PRIORITY/AB
             29 PRIORITIES/TI
            297 PRIORITIES/AB
           4427 WEIGHT#/TI
          95506 WEIGHT#/AB
L14           3 (((370/477 /CCLST) AND (BANDWIDTH#/TI,AB OR
THROUGHPUT#/TI,
AB)
              ) AND (PRIORITY/TI,AB OR PRIORITIES/TI,AB OR
WEIGHT#/TI,AB)
)

=> d ti,ab 1-
```

US PAT NO: 5,359,592 [IMAGE AVAILABLE]   L14: 1 of 3
TITLE: **Bandwidth** and congestion control for queue channels
in
                a cell switching communication controller

ABSTRACT:
A mechanism for buffering communication cells in a communication
controller, wherein a cell queuing circuit provides a cell loss
priority mechanism, and wherein the cell queuing circuit determines
service states for queue channels according to **bandwidth** allocation
parameters. The service states includes a serve.sub.-- now state, a
serve.sub.-- ok state, and a no.sub.-- serve state, such that a queue
channel is in the serve.sub.-- now state if the queue channel must be
serviced to maintain a minimum information rate parameter for the queue
channel, the serve.sub.-- ok state if the queue channel can be serviced
and not exceed a peak information rate parameter for the queue channel.

US PAT NO: 5,132,966 [IMAGE AVAILABLE]   L14: 2 of 3
TITLE: Call control with transmission **priority** in a packet
                communication network of an ATM type

ABSTRACT:
In a high-speed packet multiplex communication network including a
transmission line with a predetermined **bandwidth** and accommodating a
plurality of information sources, the sources having various packet
delivery rates over a range of between a peak rate and a lower rate than
an average rate and demanding various transport performances, the
sources
are preliminarily classified into a plurality of types according to
transport performances required and different transmission
priorities
are assigned to the different types, respectively. **Bandwidths** of
sources of first **priority** and second **priority** are determined

ones
corresponding to the peak rate and the average rate, respectively. A
virtual **bandwidth** may be calculated for the second **priority**
source as a value between the peak and average rates. In response to
connection requests from the sources, each of the connection requests is
admitted when a **bandwidth** defined by the **priority** of each source
is accepted in a residual **bandwidth** of the predetermined
bandwidth, and the packets from the source of the first **priority**
are preferentially transmitted to the transmission line, packets of the
second **priority** source are transmitted when packets of the first
priority source are absent. Thus, high **bandwidth** efficiency is
insured while the high transport performance of the first **priority**
source is maintained.

US PAT NO: 4,980,886 [IMAGE AVAILABLE]   L14: 3 of 3
TITLE: Communication system utilizing dynamically slotted
                 information

ABSTRACT:
Burst switching apparatus for a hybrid switching and transmission system
adapted to carry multimedia traffic components including voice and data
in multi-slotted frames, in which components of the traffic to be
transmitted from the sources thereof are assigned to respective selected
slots in each frame to assure transmission of information generated by
each active source within a predetermined **bandwidth**, and the
bandwidth is reallocated as necessary to provide additional slots
within each frame to the active sources on a frame-by-frame basis to
accommodate the respective **bandwidths** required for the information
generated by those sources from among the total available **bandwidth**
of the system. The reallocation to provide additional slots is achieved
by a combination of external control of **bandwidth** and dynamic
allocation of **bandwidth**, by which the additional slots that are
temporarily assigned to any active source are obtained from among those
slots to which other sources have **priority**, on a frame-by-frame
basis
for only so long as the sources having **priority** to the temporarily
assigned slots are inactive.
=> s bandwidth# or throuput#

        53922 BANDWIDTH#
            9 THROUPUT#
L1   53931 BANDWIDTH# OR THROUPUT#

=> del l1

DELETE L1? (Y)/N:y

=> s (allocat? or distribut? or divid? or control?)(2a)(bandwidth# or
throughput#)

        43759 ALLOCAT?
       489333 DISTRIBUT?
       511907 DIVID?
      1351700 CONTROL?
        53922 BANDWIDTH#
        41201 THROUGHPUT#
L1   4865 (ALLOCAT? OR DISTRIBUT? OR DIVID? OR
CONTROL?)(2A)(BANDWIDT
H#

```
                OR THROUGHPUT#)

=> s priority or priorities or rank# or weight#

          45106 PRIORITY
           5423 PRIORITIES
          10982 RANK#
         792832 WEIGHT#
L2        832374 PRIORITY OR PRIORITIES OR RANK# OR WEIGHT#

=> s l1 and l2

L3          1849 L1 AND L2

=> s l3 /ti,ab

            775 ALLOCAT?/TI
           4083 ALLOCAT?/AB
           9267 DISTRIBUT?/TI
          51582 DISTRIBUT?/AB
           2780 DIVID?/TI
          46881 DIVID?/AB
         117695 CONTROL?/TI
         354651 CONTROL?/AB
            914 BANDWIDTH#/TI
           5283 BANDWIDTH#/AB
            238 THROUGHPUT#/TI
           2172 THROUGHPUT#/AB
            474 (ALLOCAT?/TI,AB OR DISTRIBUT?/TI,AB OR DIVID?/TI,AB OR
CONT
ROL
                ?/TI,AB) (2A) (BANDWIDTH#/TI,AB OR THROUGHPUT#/TI,AB)
            659 PRIORITY/TI
           3374 PRIORITY/AB
             29 PRIORITIES/TI
            297 PRIORITIES/AB
             94 RANK#/TI
            714 RANK#/AB
           4427 WEIGHT#/TI
          95506 WEIGHT#/AB
L4            22 (((ALLOCAT?/TI,AB OR DISTRIBUT?/TI,AB OR DIVID?/TI,AB OR
CO
NTR
                OL?/TI,AB) (2A) (BANDWIDTH#/TI,AB OR THROUGHPUT#/TI,AB))
AND
(PR
                IORITY/TI,AB OR PRIORITIES/TI,AB OR RANK#/TI,AB OR
WEIGHT#/
TI,
                AB))

=> d ti,ab 1-


        (FILE 'USPAT' ENTERED AT 15:52:08 ON 28 FEB 1999)
L1          4865 S (ALLOCAT? OR DISTRIBUT? OR DIVID? OR
CONTROL?) (2A) (BANDW
IDT
L2        832374 S PRIORITY OR PRIORITIES OR RANK# OR WEIGHT#
L3          1849 S L1 AND L2
```

```
L4              22 S L3 /TI,AB

=> s server# (5a) l1

           9982 SERVER#
L5            27 SERVER# (5A) L1

=> s l5 and l2

L6            16 L5 AND L2

=> d ti,ab 1-
=> d ti,kwic 5


=> s server#(5a)(allocat? or distribut? or divid? or arbit? or control?)
(5a) (bandwidth# or throughput#)

           9982 SERVER#
          43759 ALLOCAT?
         489333 DISTRIBUT?
         511907 DIVID?
         104813 ARBIT?
        1351700 CONTROL?
          53922 BANDWIDTH#
          41201 THROUGHPUT#
L1            38 SERVER#(5A)(ALLOCAT? OR DISTRIBUT? OR DIVID? OR ARBIT? OR
C
ONT
                 ROL?) (5A) (BANDWIDTH# OR THROUGHPUT#)

=> s priority or priorities

          45106 PRIORITY
           5423 PRIORITIES
L2         46119 PRIORITY OR PRIORITIES

=> s l1 and l2

L3            17 L1 AND L2

=> d ti,ab,kwic 1-
```